

Jefferson Lab Alignment Group

Data Transmittal

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DETAILS:	data: aalign\shms\s20170804		

Below are the results from the survey of SHMS spectrometer August 4th, 2017. The SHMS fiducial points were observed from the beam right side only.

The horizontal pointing value shows how much the central axis of the spectrometer misses the ideal target. This value is perpendicular to the spectrometer axis, not along the beam line. For the vertical pointing, a positive value indicates that the spectrometer is pointing above the target.

======== S20170804

The central ray of the spectrometer is at 27.991 degrees

FOR SHMS REPORTING angle is: 24.9908 degrees

The central ray is missing the defined target center by 0.43 [mm] Upstream and 1.28 mm vertically [positive value is up]

Bender RotZ (roll) = 0.00542 degrees
Bender RotX (pitch) = 0.02628 degrees
Bender RotY (yaw) = 115.92144 degrees
Bender Rotation wrt Hall C Zero Azimuth = 26.56288 degrees
Bender Calc A posteriori value = 0.055 millimenters

9 Par A posteriori value : 0.61 (mm) No 3DD output file available to report std. dev

Sketch for the data is shown on the next page.

